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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/729,990 12/09/2003		Wade M. Mattar	12780-026001	2769	
26171	7590 06/16/2004		EXAMINER		
FISH & RICHARDSON P.C.			RAEVIS, ROBERT R		
1425 K STRE	•	ART UNIT	PAPER NUMBER		
	ON, DC 20005-3500		2856		
			DATE MAILED: 06/16/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No. Applicant(s)						
Office Action Summer:		10/729,9	90	MATTAR, WADE	M.				
Office Action Summary			r	Art Unit					
		Robert R		2856					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)⊠	1) Responsive to communication(s) filed on 26 May 2004.								
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	This action is non-final.							
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
 4) Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) 3-14,18-26,29-35 is/are withdrawn from consideration. 									
5) Claim(s) is/are allowed.									
6)⊠	6)⊠ Claim(s) <u>1,2,15-17,27,28 and 36</u> is/are rejected.								
	Claim(s) is/are objected to.								
8)	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9) The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 									
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
	see the attached detailed Office action for a ii	si oi the cen	ined copies not receive	u.					
Attachmen	• •		_						
	e of References Cited (PTO-892)		4) Interview Summary Paper No(s)/Mail Da						
3) X Infor	ee of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	98)	_	atent Application (PT	O-152)				

Application/Control Number: 10/729,990

Art Unit: 2856

DETAILED ACTION

Election of Group I is acknowledged.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,15-17,27,28,36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunningham et al in view of Wang et al.

Cunningham et al teach a method to calibrate a flow meter including: determining (col. 2, lines 15-22) the zero offset error for correction of flow measurement.

Cunningham then teaches (col. 2, lines 23-30) that changes in temperatures may cause the zero offset to drift over time, necessitating compensation for the drift.

Cunningham does not associate a calibration values (i.e. different zero values) with one of a plurality of operational parameters (i.e. a different temperature)), and does not store those two values for calibration.

Wang et al teach (col. 5, lines 31+, and continuing on to col. 6, line 6) that mass flow meters may be corrected for temperature variation by a determination of drift of offset with temperature.

As to claims 1,2,15,16,17,28 and 36, it would have been obvious to correct flow meter measurements (with an equation) for temperature variations because Wang teaches that equations permit for flow meter signal correction for variation in temperatures. In addition, it is known to employ look up charts (i.e. memory) and

interpolations/extrapolations as a means of determination of values in lieu of equation usage as chart usage permits for a more accurate means of determination due to the actual values employed/stored in the table.

As to claim 27, the meter, memory (for calibration values with their particular associated temperatures), and unit to provide for computation are all connected together.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Schupfner relate zero point to different operating temperatures.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert R. Raevis whose telephone number is 571-272-2204. The examiner can normally be reached on Monday to Friday from 7am to 4pm. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ROUGE